



SEQUENCE LISTING

<110> Waugh, Jacob
Dake, Michael
Essentia Biosystems, Inc.

<120> Multi-Component Biological Transport Systems

<130> 020154-000110US

<140> US 09/910,432
<141> 2001-07-20

<150> US 60/220,244
<151> 2000-07-21

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<170> PatentIn Ver. 2.1

<210> 1
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:positively
charged branching group (efficiency group)
attached to solid backbone (Gly-3Arg-7, G3R7)

<400> 1
Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 2
<211> 12
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<220>
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charged branching group (efficiency group)
attached to solid backbone

<220>
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<222> (1)..(3)
<223> Gly at positions 1-3 may be present or absent

<400> 2
Gly Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg
1 5 10

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<220>
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charged branching group (efficiency group)
attached to solid backbone

<220>
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attached to solid backbone

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1 5 10 15

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attached to solid backbone

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1 5 10 15

Arg Arg

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 attached to solid backbone

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 Arg Arg Arg Arg
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 Arg Arg Arg Arg Arg Arg
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 1 5 10 15

Gly Gly Gly Gly Arg Arg Arg Arg Arg
 20 25

<210> 9
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 1 5 10 15

Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg Arg
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 1 5 10 15

Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
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<400> 11
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 Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
 20 25 30

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 20 25 30

Arg

<210> 13
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Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
 20 25 30

Arg Arg Arg
 35

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 1 5 10 15

Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
 20 25 30

Arg Arg Arg Arg Arg
 35

<210> 15
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 charged branching group (efficiency group)
 attached to solid backbone

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 20 25 30

Arg Arg Arg Arg Arg Arg Arg
 35

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<400> 16
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 35 40

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 20 25 30
 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
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 attached to solid backbone

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<400> 18
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 1             5             10             15

Gly Gly Gly Gly Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
 20             25             30

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
 35             40             45

<210> 19
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<220>
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      (efficiency group) attached to solid backbone

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<220>
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<222> (32)..(51)
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 1             5             10             15

Gly Gly Gly Gly Arg Gly Arg Asp Asp Arg Arg Gln Arg Arg Arg Gly
 20             25             30

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 35             40             45

Gly Gly Gly
 50

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      charged HIV-TAT fragment branching group
      (efficiency group) attached to solid backbone

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 Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly
 20 25 30
 Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 35 40 45
 Gly Gly Gly
 50